Inserting Sets of Data

A brief Introduction

INSERT Statement

INSERT statements are used to add rows into tables.

There are two ways of executing this query(Values and Select) and the syntax for each will be outlined in subsequent slides.

Be mindful of auto-incrementing columns that do not want you to insert a value. Often ID columns are auto-incremented and therefore do not need to be explicitly inserted.

Insert Values syntax
Example Below: adds a row to the table

INSERT INTO Customers
(CustomerID, CustFirstName, CustLastName, CustStreetAddress, CustCity, CustState, CustZipCode, CustPhoneNumber)
VALUES
(10001, 'Martha', 'Washington', '101 Great Pine Way', 'Jersey', 'OH', '98102', '555-1234');

Values syntax when adding values to all columns*

*All columns with the **exception of auto-incrementing columns** as are often seen with ID fields.

To the right, you'll see that since we are using all of the insertable columns in a table, listing each column name is unnecessary. **It is good practice, however, to explicitly list the columns for clarity.**

INSERT INTO Customers
VALUES
('Martha', 'Washington', '101 Great Pine Way', 'Jersey', 'OH', '98102', '555-1234');

SQL Dialects: INSERT vs INSERT INTO

In Microsoft's T-SQL (SQL dialect / variant used in Microsoft SQL Server), as well as many other SQL Servers, you can omit the word "INTO." For example, you might see

INSERT Customers (CustFirstName, CustLastName, CustStreetAddress, CustCity, CustState, CustZipCode, CustPhoneNumber) VALUES ('Martha', 'Washington', '101 Great Pine Way', 'Jersey', 'OH', '98102', '555-1234');

In these dialects, this is the same as INSERT INTO.

Select syntax

INSERT INTO Engagements_Archive

SELECT Engagements.*

FROM Engagements

WHERE Engagements.EndDate

<'2013-01-01'

Try It-1 Sales Order

Create a new customer record for Mary Baker at 7834 W. 32nd Ct. Bothell, WA 98011 with area code 425 and ph number 555-9876

Try It-2 Entertainment db

Add 'New Age' to list of musical styles

Try It-3 School Scheduling db

Angel Kennedy wants to register as a new student. His husband, John is already enrolled. Create a new student record for Angel using the information from John's record.

Try It-4 School Scheduling db

Staff member Tim Smith wants to enroll as a student. Create a new student record from his staff record.

Try It-5 Research

Read up on stored values in SQL